

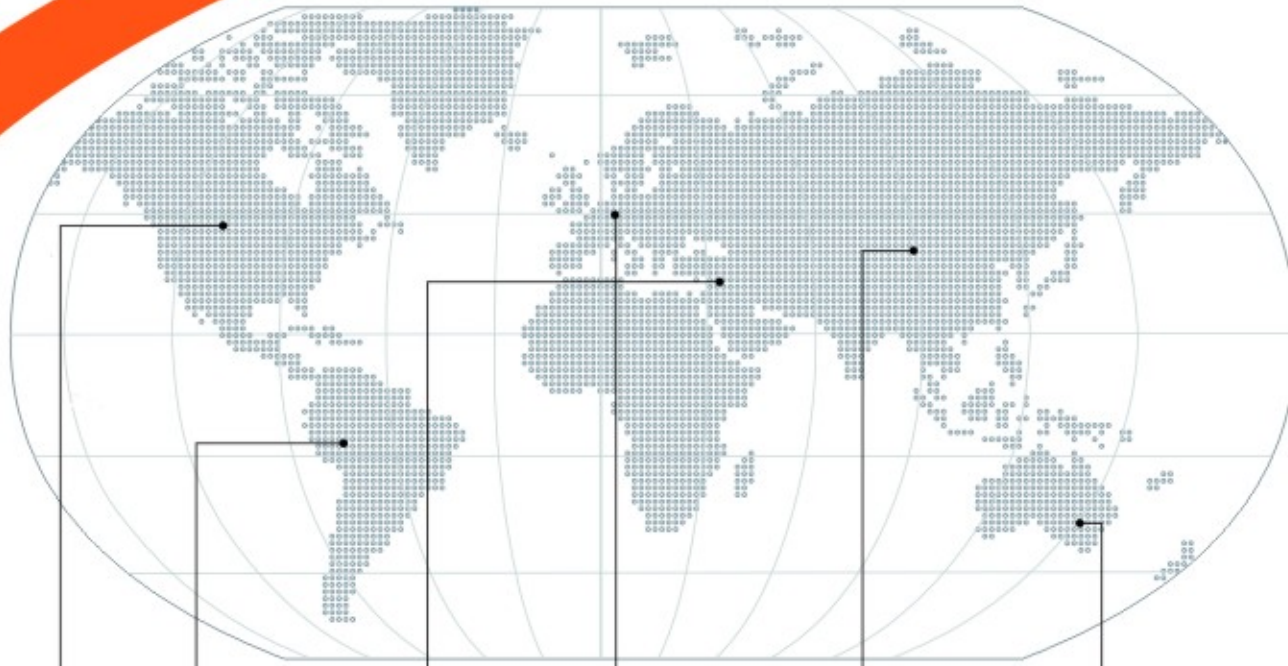
# Let Us Offer You More Energy Solutions Today

Eastar has provided consumer friendly solutions for customers worldwide for over 18 years. Our customers have been consistently satisfied with our quality, prices and attention to detail. We offer a broad range of energy solutions. Try us out today.



# EASTAR®

More Energy Solutions



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  - Uruguay
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  - Egypt
  - Iran
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www.eastarbattery.com

Professional Lithium Battery Solution Provider

## Battery Cells Department



## Laboratory



EASTAR BATTERY carry out the test of cells and battery pack, including electric performance test, safety test, environment test, mechanical test.

UL | Certified | Un38.3 |  
MSDS | EMS | IEC62133

## Company Profile



## About Eastar Battery

Shenzhen Eastar Battery Co.,Ltd is a Hi-tech enterprise specializing in research, manufacturing and marketing of Lithium-ion battery, Ni-MH/Ni-CD and battery pack.

Located in Shenzhen and Huizhou, we have two professional factories, both of them are ISO9001 certified, more than 1500 employees and monthly output can be 9,000,000pcs, the product have been approved the CE,UL organization and pass the ROHS test. Each of our production is strict quality control in each step of the production process, from the purchase of raw materials through each step in the manufacturing process.

As a professional power supplier, we engage in providing the high quality, high effective, environmental friendly and safety portable power solution for your life, meanwhile, we have a wide range battery to meet the needs of various products, such as Telecom Product, Electric Tools, Medical Instrument, UPS, Backup battery, Solar products, E-Bike, HEV and other electric products.

Eastar always pay more attention to product quality as our life and has already established a very strict, scientific quality control system according to requirement of ISO 9001:2000 to ensure the quality control from the purchasing and inspecting of raw materials (IQC), In process quality control (IPQC) to Out-going quality control (OQC). Meanwhile,we have a complete training system, all staffs need to train and pass exam before work. The scientific management system, advanced research capacity, professional quality control team, superior performance and good service obtain many acceptances of customers from all over the world.

Let us cooperate and make a better place for our nexr generation.





BATTERY

# Lithium Iron Phosphate Battery LiFePO4

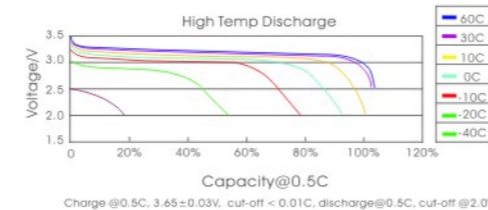
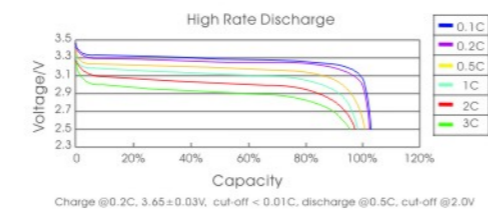
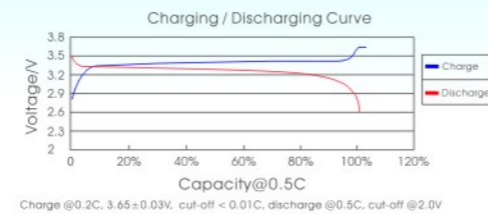
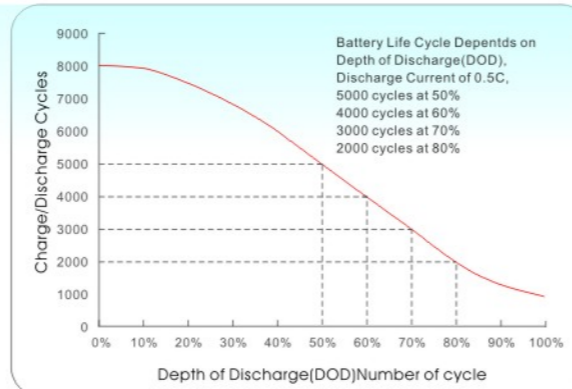
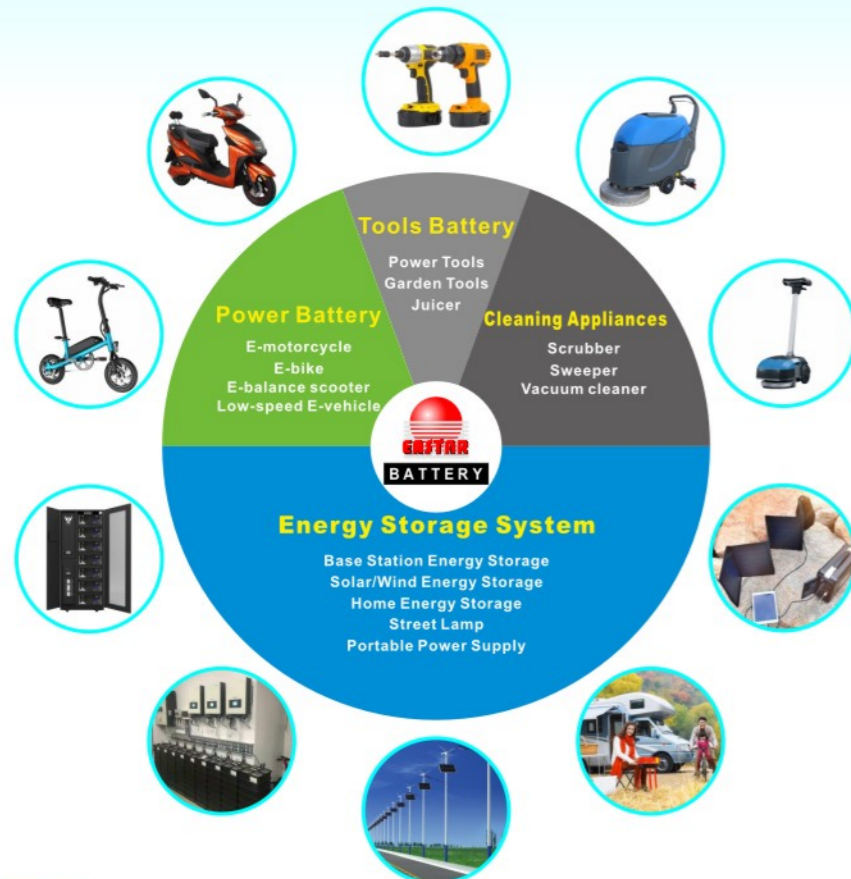


## Features

LiFePO4 battery is the top energy choice for Hev, ev, ups, Power tools and electric power storage system, as it is safe, environment-friendly and powerful with long cycle life and no memory effect.

- ※ Safest lithium chemistry
- ※ High energy density, 120-130kWh/kg
- ※ Efficient & long-lasting up to 7000+ cycles
- ※ Good High Temperature Performance
- ※ Good High Rate Discharging Performance
- ※ Excellent Stability

## Appliance



## Cylindrical LiFePO4 Cell Table

Model	Nominal Voltage (V)	Nominal Capacity (Ah)	Energy (Wh)	Rated Charge Current (mA)	Rated Discharge Current (mA)	Max Discharge Current (mA)	Charging Voltage (V)	Discharge Voltage (V)	Internal Resistance (mΩ)	Max Diameter (mm)	Max Height (mm)	Approx. Weight (g)
IFR32650N65	3.2	65	20.8	1300	1300	19.5	3.65	2.0	8	32.5	70.9	145
IFR32650N55	3.2	55	17.6	1100	1100	16.5	3.65	2.0	8	32.5	70.9	144
IFR32650N50	3.2	5	16	1000	1000	15	3.65	2.0	20	32.5	70.9	143
IFR26650N38	3.2	3.8	12.16	760	760	11.4	3.65	2.0	15	26.5	66.5	86
IFR26650N36	3.2	3.6	11.52	720	720	10.8	3.65	2.0	15	26.3	65.5	86
IFR26650N34	3.2	3.4	10.88	680	680	10.2	3.65	2.0	30	26.3	66.5	85
IFR26650N33	3.2	3.3	10.56	660	660	9.9	3.65	2.0	30	26.3	66.5	85
IFR26650N32	3.2	3.2	10.24	640	640	9.6	3.65	2.0	30	26.3	66.5	83
IFR26650N30	3.2	3	9.6	600	600	9	3.65	2.0	30	26.3	66.5	83
IFR26500N28	3.2	2.8	8.96	560	560	8.4	3.65	2.0	32	26.3	66.5	82
IFR26500N24	3.2	2.4	7.68	480	480	7.2	3.65	2.0	32	26.3	66.5	79
IFR22650N22	3.2	2.2	7.04	440	440	6.6	3.65	2.0	25	22.5	66.5	59
IFR22650N21	3.2	2.1	6.72	420	420	6.3	3.65	2.0	25	22.5	66.5	59
IFR22650N20	3.2	2	6.4	400	400	6	3.65	2.0	25	22.5	66.5	58
IFR18650N16	3.2	1.6	5.12	320	320	4.8	3.65	2.0	30	18.5	65.6	43
IFR18650N15	3.2	1.5	4.8	300	300	4.5	3.65	2.0	30	18.5	65.6	42
IFR18650N13	3.2	1.3	4.16	260	260	3.9	3.65	2.0	30	18.2	65	39
IFR18500N10	3.2	1	3.2	200	200	3	3.65	2.0	70	18.2	49	29
IFR14430N40	3.2	0.4	1.28	80	80	1.2	3.65	2.0	80	14.25	43	15
IFR14500N60	3.2	0.6	1.92	120	120	1.8	3.65	2.0	70	14.25	50.8	16
IFR14500N50	3.2	0.5	1.6	100	100	1.5	3.65	2.0	70	14.25	51	15.6
IFR14500N40	3.2	0.4	1.28	80	80	1.2	3.65	2.0	70	14.25	52	15

## Prismatic LiFePO4 Cell Table

	Normal Voltage: 3.2V Normal Capacity: 20Ah Discharge Current: 1C Weight: 650g Size: 148x92x30mm		Normal Voltage: 3.2V Normal Capacity: 45Ah Discharge Current: 3C Weight: 1220g Size: 148x147x27mm		Normal Voltage: 3.2V Normal Capacity: 200Ah Discharge Current: 3C Weight: 2.2kg Size: 217x144x69mm
	Normal Voltage: 3.2V Normal Capacity: 120Ah Discharge Current: 3C Weight: 1410g Size: 173x165x48mm		Normal Voltage: 3.2V Normal Capacity: 80/90/100Ah Discharge Current: 3C Weight: 1.8kg Size: 215x135x29mm		Normal Voltage: 3.2V Normal Capacity: 20Ah Discharge Current: 30C Weight: 485g Size: 227x160x7.2mm



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# Rechargeable Lithium ion Battery Li-ion

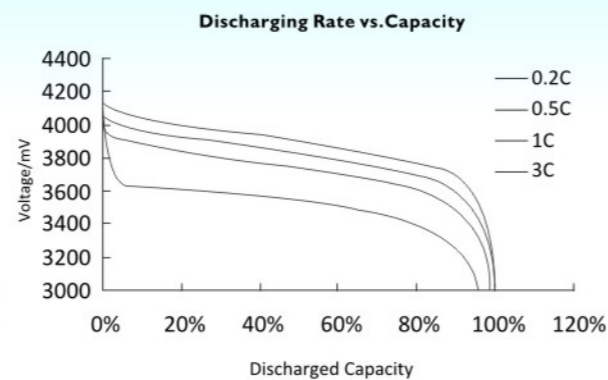


## Features

- ※ Lithium-Nickel-Cobalt-Manganese(NCM) Chemistry
- ※ Certified high quality meets international safety standard such as En62133 and UL
- ※ High energy density
- ※ High drain discharging or special discharging requirements are also available

## Appliance

The batteries are widely used in miner lights, LED light, emergency lights, flashlights, laptop, portable DVD, wireless communication product, power tools and etc.



## Cylindrical Lithium-ion Cell Table

Model	Nominal Voltage (V)	Nominal Capacity (Ah)	Energy (Wh)	Rated Charge Current (mA)	Rated Discharge Current (mA)	Max Discharge Current (mA)	Charging Voltage (V)	Discharge Voltage (V)	Internal Resistance (mΩ)	Max Diameter (mm)	Max Height (mm)	Approx. Weight (g)
ICR14400	3.7	600	2.2	120	120	600	4.2	2.75	80	14.25	39.5	15.5
ICR14430	3.7	650	2.4	130	130	650	4.2	2.75	80	14.3	43	14.0
ICR14430	3.7	700	2.5	140	140	700	4.2	2.75	80	14.3	43	16.8
ICR14500	3.7	700	2.5	140	140	700	4.2	2.75	80	14.3	49	16.0
ICR14500	3.7	850	3.1	170	170	850	4.2	2.75	80	14.3	49	18.0
ICR18490	3.7	1300	4.8	260	260	1300	4.2	2.75	80	18.25	49	31.0
ICR18490	3.7	1600	5.9	320	320	1600	4.2	2.75	80	18.5	49	33.0
ICR18490	3.7	1900	7.0	380	380	1900	4.2	2.75	70	18.5	49	36.0
NCM18650	3.7	2000	7.4	400	400	2000	4.2	2.75	60	18.25	65	45.0
NCM18650	3.7	2200	8.1	440	440	2200	4.2	2.75	60	18.25	65	47.0
NCM18650	3.7	2600	9.6	520	520	2600	4.2	2.75	60	18.25	65	51.0
NCM26650	3.7	5000	18.5	1000	1000	5000	4.2	2.75	60	26.25	66.5	94.0
NCM21700	3.7	4000	14.8	2000	2000	20000	4.2	2.75	30	21.00	70	69
NCM21700	3.7	4800	17.76	2400	2400	24000	4.2	2.75	15	21.00	70	70



BATTERY

# E-bike Lithium Battery



**EV Power Rated Lithium Cell**  
Support high-rated current discharging.



**BMS Inside**  
For better battery protection.



**Multi-scenario application**  
Can be used for commuting, outdoor travel, .etc.



**Customized**  
Provide one-stop solution and service.





## E-bike Lithium Battery



Model: Hailong-1

- CELL NUMBER:MAX 65 CELLS
- Nominal Voltage:48V/36V
- Nominal Capacity:8.8Ah~17.5Ah
- Dimension (L\*W\*H):361\*90\*92mm/361\*90\*115mm
- Max.Continuous Discharge Current:15-25A
- Continuous Charge Current:2-3A
- Charge Method:CC/CV
- BMS:Standard/Smart
- Cycle life:600 times with remaining capacity $\geq$ 60% of nominal capacity (@20 $\pm$ 5 $^{\circ}$ C) ,Charg @0.2C and discharge@0.5C)
- Remark: Above data can be different depends on different type of cells used.

- CELL NUMBER:MAX 40 CELLS
- Nominal Voltage:48V/36V
- Nominal Capacity:8.8Ah~14Ah
- Dimension(L\*W\*H):365\*106\*92mm
- Max.Continuous Discharge Current:15-25A
- Continuous Charge Current:2-3A
- Charge Method:CC/CV
- BMS:Standard/Smart
- Cycle life:600 times with remaining capacity $\geq$ 60% of nominal capacity (@20 $\pm$ 5 $^{\circ}$ C) ,Charg @0.2C and discharge@0.5C)
- Remark: Above data can be different depends on different type of cells used.



Model: Hailong-2

- CELL NUMBER:MAX 65 CELLS
- Nominal Voltage:48V/36V
- Nominal Capacity:8.8Ah~14Ah
- Dimension(L\*W\*H):365\*82\*113mm
- Max.Continuous Discharge Current:15-25A
- Continuous Charge Current:2-3A
- Charge Method:CC/CV
- BMS:Standard/Smart
- Cycle life:600 times with remaining capacity $\geq$ 60% of nominal capacity (@20 $\pm$ 5 $^{\circ}$ C) ,Charg @0.2C and discharge@0.5C)
- Remark: Above data can be different depends on different type of cells used.



Model: Atlas DA-1



## E-bike Lithium Battery



Model: Dongche

- CELL NUMBER:MAX 52 CELLS
- Nominal Voltage:48V/36V
- Nominal Capacity:8.8Ah~14Ah
- Dimension (L\*W\*H):421\*157\*43mm
- Max.Continuous Discharge Current:15-25A
- Continuous Charge Current:2-3A
- Charge Method:CC/CV
- BMS:Standard/Smart
- Cycle life:600 times with remaining capacity $\geq$ 60% of nominal capacity (@20 $\pm$ 5 $^{\circ}$ C) ,Charg @0.2C and discharge@0.5C)
- Remark: Above data can be different depends on different type of cells used.

- CELL NUMBER:MAX 52 CELLS
- Nominal Voltage:48V/36V
- Nominal Capacity:11Ah~17Ah
- Dimension(L\*W\*H):342\*78\*99mm/ 437\*61\*150mm
- Max.Continuous Discharge Current:15-20A
- Continuous Charge Current:2-3A
- Charge Method:CC/CV
- BMS:Standard/Smart
- Cycle life:600 times with remaining capacity $\geq$ 60% of nominal capacity (@20 $\pm$ 5 $^{\circ}$ C) ,Charg @0.2C and discharge@0.5C)
- Remark: Above data can be different depends on different type of cells used.



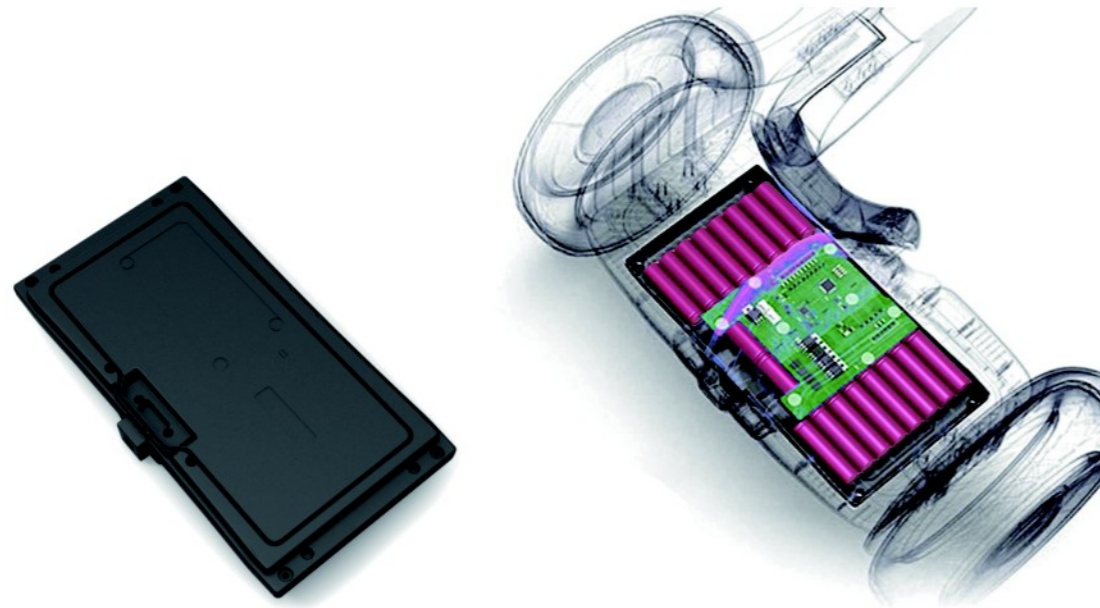
Model: Vulpecula RV-1

- CELL NUMBER:MAX 40 CELLS
- Nominal Voltage:48V/36V
- Nominal Capacity:8.8Ah~14Ah
- Dimension(L\*W\*H):365\*106\*92mm
- Max.Continuous Discharge Current:15-25A
- Continuous Charge Current:2-3A
- Charge Method:CC/CV
- BMS:Standard/Smart
- Cycle life:600 times with remaining capacity $\geq$ 60% of nominal capacity (@20 $\pm$ 5 $^{\circ}$ C) ,Charg @0.2C and discharge@0.5C)
- Remark: Above data can be different depends on different type of cells used.



Model: Silverfish

## E-balance scooter Battery



### Model: EA-NNC1

- Nominal Voltage: 36V
- Nominal Capacity:4.4Ah
- CELL NUMBER:MAX 20 CELLS
- Max. Continuous Discharge Current: 30A
- Working Voltage Scope:28-42V
- Charge Method: CC/CV
- BMS:Standard /Smart
- Cycle Life: 600 times with remaining capacity  $\geq 60\%$  of nominal capacity (@ $20\pm 5^{\circ}\text{C}$ , Charge @0.2C and discharge@0.5
- Dimension (L\*W\*H):163\*95\*59mm

- Nominal Voltage: 54V
- Nominal Capacity:4.4Ah
- CELL NUMBER:MAX 30 CELLS
- Max. Continuous Discharge Current: 30A
- Working Voltage Scope:40.5V~67.2V
- Charge Method: CC/CV
- BMS:Standard /Smart
- Cycle Life: 600 times with remaining capacity  $\geq 60\%$  of nominal capacity (@ $20\pm 5^{\circ}\text{C}$ , Charge @0.2C and discharge@0.5
- Dimension (L\*W\*H):306\*170\*40mm

### Model: EA-XM01



## E-Motorcycle Lithium Battery



- ✓ Long Cycle Life
- ✓ Strong Power Output
- ✓ Battery Protection
- ✓ Portable Handle Design



NCM Polymer Battery



BMS



Foldable Handle



Battery Status Display



- Voltage & Capacity: 48V 60Ah
- Max constant discharge current: 15-70A
- Cell: NCM polymer battery
- Configuration: 13S2P
- Features: Battery protection, display screen
- Size: 235\*180\*270 mm



- Voltage & Capacity: 48V 30Ah
- Max constant discharge current: 15-70A
- Cell: NCM polymer battery
- Configuration: 13S1P
- Features: Battery protection, display screen
- Size: 180\*150\*270 mm

## E-MOTORCYCLE Lithium Battery



Parameter	
Voltage & Capacity	48V60Ah / 60V30Ah / 72V30Ah
Cycle life	≥2000TIME(DOD80%)
Maximum Constant discharge current	15-70A
Continuous charge current	15-70A
Cell	NCM polymer battery
Configuration	13S2P / 17S1P / 20S1P
Size	315*215*197 mm
Battery protection	Over-charge & over-discharge protection, Over-current protection, Over-temperature protection, Short-circuit protection, Cell balancing.



Parameter	
Voltage & Capacity	60V30Ah / 72V30Ah
Cycle life	≥2000Times (DOD80%)
Maximum Constant discharge current	15-70A
Continuous charge current	15-70A
Cell	NCM polymer battery
Configuration	17S1P / 20S1P
Size	273*154*300 mm
Battery protection	Over-charge & over-discharge protection, Over-current protection, Over-temperature protection, Short-circuit protection, Cell balancing.



Parameter	
Voltage & Capacity	60V30Ah / 72V30Ah
Cycle life	≥2000Times (DOD80%)
Maximum Constant discharge current	15-70A
Continuous charge current	15-70A
Cell	NCM polymer battery
Configuration	17S1P / 20S1P
Size	400*210*165 mm
Battery protection	Over-charge & over-discharge protection, Over-current protection, Over-temperature protection, Short-circuit protection, Cell balancing.

## Storage Lithium Battery

- ✓ Long cycle life
- ✓ Good safety performance
- ✓ Durable power output
- ✓ Convenient maintenance



Base station storage



Solar energy storage



Wind energy storage



Street lamp energy storage



Portable power supply



### Station storage lithium battery

- **Long cycle Life:** more than 4000 times ( DOD80% ) 。
- **Battery protection:** Over-charge & over-discharge protection, Over-current protection, Over-temperature protection, .etc.
- **Communication protocol:** RS 485, RS 232, CAN, .etc.



### Lithium battery for wind-solar storage system

- **Advantage:** long cycle life, high safety performance, high-rate discharge performance, stable output, etc.
- **Battery protection:** Over-charge & over-discharge protection, Over-current protection, Over-temperature protection, .etc.
- **Applications:** street lamp, traffic light, pest control lamp, .etc.



### Portable power supply

- **Various cell options:** LiFePO4, 18650, polymer battery.
- **Battery protection:** Over-charge & over-discharge protection, Over-current protection, Over-temperature protection, .etc.
- **Features:** AC & DC output, DC solar input, car emergency start.



-   
Long cycle life
-   
Battery protection
-   
Communication protocol support
-   
Stable output
-   
Environmentally friendly & safe

## Battery Module Parameter

Voltage & Capacity	48V 50Ah-100Ah
Constant discharge current	50A-100A
Constant charge current	50A-100A
Cell	LiFePO4
Size	2U/3U/4U/5U
Communication protocol	RS485 , RS232
Battery protection	Over-charge & over-discharge protection, Over-current protection, Over-temperature protection, Short-circuit protection, Cell balancing
Additional features	LED indicator, Dial switch, Dry connect, Maintenance port, .etc
Applications	Station energy storage, Household solar storage system, Wind-solar storage system, Emergency power supply

## Uninterrupted Power Supply



LiFePO4 battery

BMS

Communication port & display screen

Air switch & maintenance port

### Battery Parameter

Voltage	48V
Capacity	100Ah
Constant discharge current	100A
Continuous charge current	100A
Cell	LiFePO4 15S2P
Battery protection	Over-charge & over-discharge protection, Over-current protection, Over-temperature protection, Short-circuit protection, Cell balancing.
Communication protocol	RS485 ,RS232
Additional features	LED indicator, Dial switch, Maintenance port



### Battery Parameter

Voltage & Capacity	48V 50Ah
Maximum Constant discharge current	50Ah
Continuous charge current	50A
Cell	LiFePO4 15S1P
Size	420*380*133mm
Battery protection	Over-charge & over-discharge protection, Over-current protection, Over-temperature protection, Short-circuit protection, Cell balancing.
Communication protocol	RS485 ,RS232
Features	Battery protection, Dial switch, Air switch, LED indicator



### Battery Parameter

Voltage & Capacity	48V 50Ah
Maximum Constant discharge current	50Ah
Continuous charge current	50A
Cell	LiFePO4 15S1P
Size	440*385*133mm
Battery protection	Over-charge & over-discharge protection, Over-current protection, Over-temperature protection, Short-circuit protection, Cell balancing.
Communication protocol	RS485 ,RS232
Features	Battery protection, Dial switch, Air switch, LED indicator, Display screen





BATTERY

## Energy Storage Lithium Battery



12.8V 8Ah



12.8V 50Ah



12.8V 100Ah

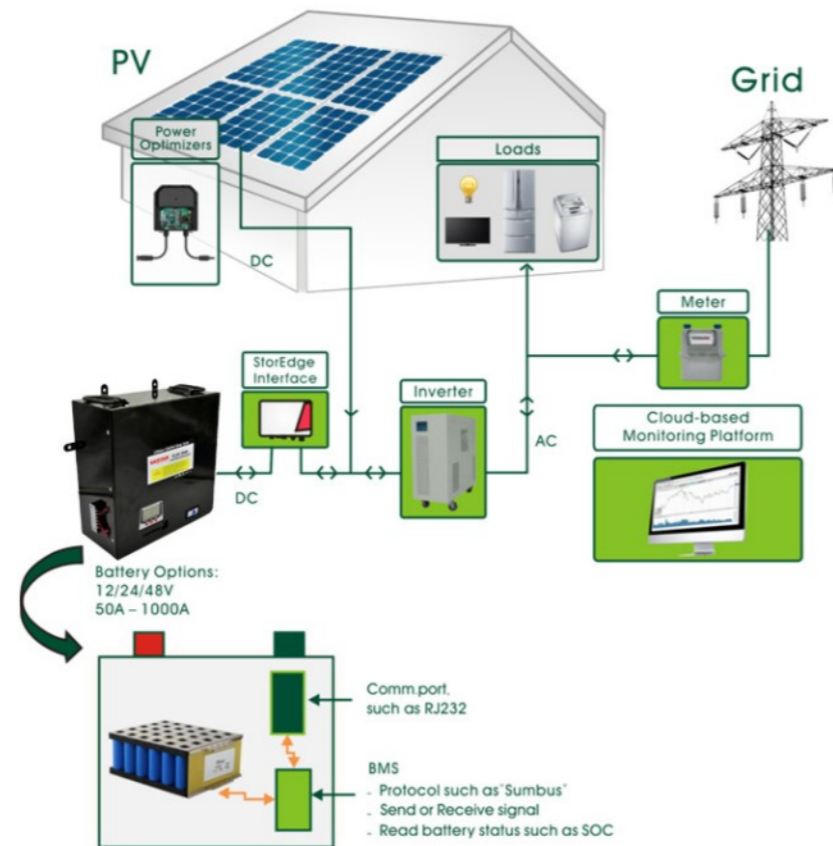


12.8V 50Ah



51.2V 300Ah

LiFePO4 Battery Application  
For Residential Energy Storage



BATTERY

## Electric Vehicle Battery

### > Electric Forklift

Battery Cell Model	LiFePO4
Nominal Capacity	76.8V 200Ah 15.3KWh
Discharging Current	200A
Number of Series and Parallel Connection	3Parallel 24Series
Protection Level of External Case	Battery case and external aviation connectors and wiring harness are fully waterproof
Battery in conformity with the reference standard of	UL2054, UL1642, UL2580, GB/T 31484-2015/A, GB/T 31485-2015/A, GB/T 31486-2015/A



### > Specialized Electric Vehicle

Battery Cell Model	Ternary Lithium18650
Nominal Capacity	72V 100Ah 7.2KWh
Discharging Current	100A
Number of Series and Parallel Connection	40Parallel20Series
Protection Level of External Case	Battery case and external aviation connectors and wiring harness are fully waterproof
Battery in conformity with the reference standard of	UL2054, UL1642, UL2580, GB/T 31484-2015/A, GB/T 31485-2015/A, GB/T 31486-2015/A



### > Electric Logistics Vehicle

Battery Cell Model	70Ah Multivariate composite lithium battery
Nominal Capacity	540V 280Ah 151.2KWh
Discharging Current	200A
Number of Series and Parallel Connection	152S 4P (A total of 4 battery boxes)
Protection Level of External Case	Battery case and external aviation connectors and wiring harness are fully waterproof
Battery in conformity with the reference standard of	UL2054, UL1642, UL2580, GB/T 31484-2015/A, GB/T 31485-2015/A, GB/T 31486-2015/A





BATTERY

# Lithium polymer Battery Li-PO



## Features

- ※ Light Weight  
The Lithium Polymer cell is 40% lighter than the same specification of the steel shell liquid lithium cell, and 20% lighter than aluminium shell liquid lithium cell.
- ※ High Capability  
10-15% more than the same specification steel and 5%-10% more than aluminium shell liquid lithium cell.
- ※ Excellent Discharge Performance  
Lithium Polymer battery applies gelled electrolyte with more stable discharge characteristics and higher discharge plateau.
- ※ Long-life cycles  
Lithium Polymer battery can have more than general cycle life of 500 times in normal operation.
- ※ Excellent safety Performance  
Since aluminum blister is adopted as battery outer package, it is safe than steel shell liquid lithium cell.
- ※ Low Internal Resistance No Memory Affects
- ※ Customized shape

## Ultra-thin Lithium polymer Cell Table

NO.	Series	Type	Capacity (mAh)	Thickness Max.(mm)	Width Max.(mm)	Height Max.(mm)	Weight (g)	Impedance (mΩ)	voltage (V)
1	3034	053034	10	0.55	30.5	34.5	0.2	1800	3.7
2	2735	072735	25	0.75	27.5	35.5	0.5	1000	3.7
3	3034	053034	10	0.55	30.5	34.5	0.2	1800	3.7
4	1831	081831	8	0.85	18.5	31.5	0.2	1750	3.7
5	3034	053034	10	0.55	30.5	34.5	0.2	1800	3.7
6	2735	072735	25	0.75	27.5	35.5	0.5	1000	3.7
7	3034	053034	10	0.55	30.5	34.5	0.2	1800	3.7
8	1831	081831	8	0.85	18.5	31.5	0.2	1750	3.7



## Ultra-small size Lithium polymer Cell Table

NO.	Type	Capacity (mAh)	Thickness Max.(mm)	Width Max.(mm)	Height Max.(mm)	Weight (g)	Impedance (mΩ)	voltage (V)
1	300815	15	3.1	8.5	15.5	0.3	1800	3.7
2	450824	55	4.5	8.5	24.5	1	400	3.7
3	420919	45	4.5	9.5	19.5	1	420	3.7
4	351018	30	3.5	10.5	18.5	0.6	450	3.7
5	341024	50	3.4	10.5	24.5	1	400	3.7
6	451113	35	4.5	11.5	13.5	0.7	440	3.7
7	551113	40	5.5	11.5	13.5	0.8	430	3.7
8	301215	22	3.1	12.5	15.5	0.8	1100	3.7



## Curve Lithium polymer Cell Table

NO.	Type	Capacity (mAh)	Thickness Max.(mm)	Width Max.(mm)	Height Max.(mm)	Charge	Discharge	voltage (V)	Semidiameter (mm)
1	301021R	36	3.0	10.1	21	0.2C-2C	0.2C-3C	3.7	R=10 (25mm)
2	301028R	60	3.0	10.1	28	0.2C-2C	0.2C-3C	3.7	R=15 (25mm)
3	301033R	70	3.0	10.1	33	0.2C-2C	0.2C-3C	3.7	R=15.5 (29mm)
4	301633R	100	3.0	10.1	33	0.2C-2C	0.2C-3C	3.7	R=16 (25mm)



BATTERY

- ※ Batteries are widely used in mobile phones, notebook computers, digital products, electronic medical equipment, household appliances, lighting and toy products.
- ※ Power batteries are widely used in power tools, electric bicycles, electric motorcycles, electric vehicles, electric buses and other fields.

## General Type Li-polymer Battery

NO.	Series	Type	Capacity (mAh)	Thickness Max.(mm)	Width Max.(mm)	Height Max.(mm)	Weight (g)	Impedance (mΩ)	voltage (V)
1	846	350846	85	3.80	8.50	46.50	1.4	600	3.7
2	1030	371030	80	3.80	10.00	30.50	2.0	300	3.7
3	1133	421133	120	4.30	11.00	33.00	2.4	180	3.7
4	1226	401226	80	4.2	12.8	26.8	2.5	270	3.7
5	1230	501230	120	5.20	12.80	30.80	2.9	240	3.7
6	1323	271323	38	2.70	13.00	22.30	1.2	500	3.7
7	1421	601421	100	6.00	14.80	21.60	2.6	300	3.7
8	1430	451430	135	4.70	14.80	30.80	3.0	200	3.7
9	1435	601435	200	6.20	14.50	34.80	7.0	220	3.7
10	1521	421521	80	4.4	14.8	21.5	2.4	300	3.7
11	1528	401528	110	4.10	15.60	28.30	2	160	3.7
12	1532	441532	150	4.30	15.00	32.00	3.4	200	3.7
13	1619	621619	110	6.40	16.50	19.50	3.0	320	3.7
14	1630	301630	100	3.20	15.80	29.80	2.3	220	3.7
15	1730	501730	190	5.00	17.80	30.80	4.0	120	3.7
16	1740	511740	300	5.10	17.30	40.30	6.1	100	3.7
17	1745	601745	400	6.20	17.50	45.80	7.8	100	3.7
18	1753	631753	500	6.3	17	53.5	10.2	85	3.7
19	1840	301840	170	3.10	17.80	40.00	4.0	150	3.7
20	2025	652025	250	6.70	20.50	25.50	5.1	150	3.7
21	2030	402030	190	4.10	20.60	30.60	4.0	150	3.7
22	2035	702035	400	7.00	20.80	35.80	7.8	100	3.7
23	2045	802045	680	8.30	20.80	45.80	13.0	60	3.7
24	2054	582054	560	5.70	20.30	54.30	11.5	50	3.7
25	2060	502060	530	5.00	20.80	59.80	10.2	80	3.7
26	2154	802154	900	8.3	21	54	18.5	60	3.7
27	2236	602236	400	6.10	22.50	36.50	8.3	75	3.7
28	2335	852335	600	8.60	23.70	35.80	11.6	80	3.7
29	2348	722348	700	7.50	22.50	47.00	14.0	70	3.7
30	25100	6025100	1400	6.05	24.80	100.00	28.0	50	3.7
31		5025100	1200	5.30	24.80	99.80	24.5	50	3.7
32	2527	502527	250	5.20	25.80	27.80	5.3	120	3.7
33	2529	542529	310	5.40	24.80	28.80	5.3	120	3.7
34	2533	502533	370	5.10	25.80	33.80	7.5	120	3.7
35	2543	432543	400	4.50	25.80	42.80	9.8	100	3.7
36	2635	232635	130	2.40	29.50	35.00	3.5	220	3.7
37	2648	502648	570	5.20	26.30	48.30	12.0	80	3.7
38	2730	452730	310	4.70	27.80	30.80	6.5	130	3.7
39	2749	702749	900	7.10	27.00	49.80	19.0	70	3.7
40	2757	302757	380	3.00	27.00	56.80	7.6	100	3.7
41	2760	602760	950	6.00	27.80	59.80	19.1	65	3.7
42	2834	302834	190	3.00	28.00	34.00	4.8	150	3.7
43	2846	502846	600	5.20	27.80	45.80	12.2	80	3.7
44	2865	402865	750	4.3	28.8	65	14.9	70	3.7
45	2921	752921	320	7.40	29.50	21.60	6.8	130	3.7
46	2933	402933	320	4.10	29.30	33.30	6.9	100	3.7
47	2990	702990	1900	7.00	29.50	90.80	36.0	60	3.7
48	3030	303030	180	3.00	30.00	29.00	5.9	150	3.7
49	3040	503040	570	5.20	30.30	41.00	11.5	65	3.7
50	3046	503046	650	5.00	30.30	45.50	12.9	80	3.7
51	3048	603048	900	6.20	30.80	48.80	17.1	60	3.7
52		803048	1100	8.20	30.80	48.80	21.9	60	3.7
53	3150	753150	1200	7.60	31.00	49.80	23.0	60	3.7
54	3235	603235	630	5.6	33.3	36.2	11.5	80	3.7
55	3243	803243	1050	8.1	32	43	21	60	3.7
56	3350	383350	630	3.85	33.50	50.80	12.8	65	3.7
57	3438	473438	500	4.90	34.00	38.30	10.6	60	3.7
58		503438	580	5.10	34.30	37.80	12.5	80	3.7
59	3446	513446	800	5.2	34.3	46.2	15.5	65	3.7
60	3448	603448	950	6.05	34.30	48.80	18.9	50	3.7
61	3450	523450	900	5.40	34.80	50.80	17.7	65	3.7
62		723450	1300	7.45	34.80	50.80	24.0	60	3.7
63	3455	553455	1100	5.70	34.80	55.80	21.5	55	3.7

NO.	Series	Type	Capacity (mAh)	Thickness Max.(mm)	Width Max.(mm)	Height Max.(mm)	Weight (g)	Impedance (mΩ)	voltage (V)
64	3467	783467	1750	7.80	34.50	66.80	34.2	50	3.7
65	3650	883650	1650	9.00	36.30	50.80	34.0	50	3.7
66	3759	633759	1400	6.30	36.80	59.80	26.3	50	3.7
67	3759	373759	850	3.90	37.80	59.80	16.8	65	3.7
68	3839	483839	680	4.80	37.50	38.80	13.0	75	3.7
69	3840	463840	650	4.60	38.00	40.00	12.9	75	3.7
70	3840	803840	1200	8.20	38.00	41.00	22.5	60	3.7
71	38114	6038114	2700	6.05	38.50	113.80	11.5	50	3.7
72	4040	704040	1000	7.00	39.30	40.00	20.5	60	3.7
73	4048	484048	1000	4.8	40	48.5	19.5	55	3.7
74	4065	384065	1000	3.85	40.00	64.50	18.8	60	3.7
75	4169	804169	2650	8.20	41.60	69.60	46.0	50	3.7
76	4183	624183	2400	6.25	41.50	83.00	48.0	50	3.7
77	4261	454261	1050	4.50	41.60	60.80	21.0	60	3.7
78	4261	474261	1200	4.70	41.60	60.80	23.4	50	3.7
79	4261	724261	2000	7.30	42.80	61.60	37.5	50	3.7
80	4296	604296	2800	6.10	42.30	96.50	51.2	50	3.7
81	4296	654296	2900	6.55	42.60	96.80	53.2	50	3.7
82	4348	374348	720	3.70	43.00	48.00	14.0	80	3.7
83	4356	374356	900	3.80	43.80	56.80	17.1	65	3.7
84	4356	424356	1000	4.20	43.80	56.80	19.7	80	3.7
85	4368	554368	1700	5.4	43	67.8	31.5	50	3.7
86	4452	824452	1950	8.30	44.20	53.00	37.6	50	3.7
87	4452	504452	1150	5.00	44.80	52.80	22.3	60	3.7
88	4460	354460	950	3.50	44.50	60.50	19.0	65	3.7
89	4461	464461	1300	4.65	44.50	61.50	24.5	50	3.7
90	4462	304462	700	3.00	44.00	62.00	22.3	65	3.7
91	4462	384462	1000	3.80	43.80	61.80	20.1	65	3.7
92	4472	504472	1700	5.00	44.00	72.50	32.0	50	3.7
93	45135	4045135	3000	4.30	45.30	134.30	61.0	40	3.7
94	45135	5045135	3600	5.20	45.30	134.30	74.0	50	3.7
95	45135	6345135	4500	6.50	45.80	134.30	98.0	50	3.7
96	4556	684556	1800	7.00	44.80	55.80	35.5	50	3.7
97	4556	534556	1400	5.40	45.00	56.00	29.0	5	

## Hight Power Li-polymer Battery ▶



NO.	Type	Capacity (mAh)	Thickness (±0.2)(mm)	Width (±0.5)(mm)	Height (±1.0)(mm)	Weight (g)	Continuous Discharge Current	Burst Discharge Current	voltage (V)
1	532030P	200	5.3	20	30	7	12C	25C	3.7
2	652025P	220	7	20	25	7	12C	25C	3.7
3	552036P	280	5.5	20	36	8	12C	25C	3.7
4	702035P	350	6.5	20	36	8.7	12C	25C	3.7
5	652240P	400	6.5	22	40	10	12C	25C	3.7
6	752535P	450	7.5	25	35	13	12C	25C	3.7
7	902530P	500	9	25	30	14	12C	25C	3.7
8	553046P	600	5.5	30	46	16	12C	25C	3.7
9	683048P	800	6.8	30	48	19	12C	25C	3.7
10	403090P	1000	4	30	90	25	12C	25C	3.7
11	823048P	1000	8.2	30	48	25	12C	25C	3.7
12	533562P	1000	5.3	35	62	25	12C	25C	3.7
13	743255P	1100	7.4	32	55	28	12C	25C	3.7
14	533090P	1300	5.3	30	90	30.5	12C	25C	3.7
15	683562P	1300	6.8	35	62	30.5	12C	25C	3.7
16	5517170P	1300	5.5	17	170	30.5	12C	25C	3.7
17	6220120P	1300	5.5	20	120	30.5	12C	25C	3.7
18	803562P	1500	8	35	62	35	12C	25C	3.7
19	533048HP	600	5.3	30	48	16	15C	30C	3.7
20	602562HP	800	6	25	62	20	15C	30C	3.7
21	723048HP	850	7.2	30	48	20.5	15C	30C	3.7
22	743048HP	900	7.4	30	48	22	15C	30C	3.7
23	563562HP	1000	5.6	35	62	26	15C	30C	3.7
24	503090HP	1200	5	30	90	29	15C	30C	3.7
25	6020120HP	1200	6	20	120	29	15C	30C	3.7
26	703562HP	1300	7	35	62	31.3	15C	30C	3.7
27	554269HP	1400	5.5	42	69	33	15C	30C	3.7
28	643480HP	1500	6	34	80	35	15C	30C	3.7
29	763080HP	1500	7.6	30	80	36	15C	30C	3.7
30	663090HP	1600	6.6	30	90	38	15C	30C	3.7
31	754258HP	1600	7.5	42	58	38	15C	30C	3.7
32	703480HP	1700	7	34	80	39	15C	30C	3.7
33	603496HP	1800	6	34	96	42	15C	30C	3.7
34	653296HP	1800	6.5	32	96	42	15C	30C	3.7
35	853080HP	1800	8.5	30	80	43	15C	30C	3.7
36	903467HP	1800	9	34	67	43	15C	30C	3.7
37	723090HP	1900	7.2	30	90	44	15C	30C	3.7
38	683496HP	2000	6.8	34	96	46	15C	30C	3.7
39	903480HP	2200	9	34	80	50	15C	30C	3.7
40	723496HP	2200	7.2	34	96	51	15C	30C	3.7
41	724285HP	2400	7.2	42	85	63	15C	30C	3.7
42	5061100HP	3000	5	61	100	74	15C	30C	3.7
43	5048135HP	3100	5	48	135	82	15C	30C	3.7
44	745690HP	3550	7.4	56	90	83	15C	30C	3.7
45	8243150HP	4800	8.2	43	150	124	15C	30C	3.7
46	8543150HP	5000	8.5	43	150	125	15C	30C	3.7
47	552036SP	250	5.5	20	36	7.5	25C	50C	3.7
48	383048SP	360	3.8	30	48	10	25C	50C	3.7
49	453048SP	450	4.5	30	48	12	25C	50C	3.7
50	603048SP	600	6	30	48	15	25C	50C	3.7
51	783048SP	850	7.8	30	48	25	25C	50C	3.7
52	6043128SP	2800	6	43	128	72	25C	50C	3.7
53	6843128SP	3200	6.8	43	128	84	25C	50C	3.7
54	7645100SP	3000	7.6	45	100	78	25C	30C	3.7
55	7642125SP	3200	7.6	42	125	80	25C	50C	3.7
56	7043128SP	3400	7	43	128	90	25C	30C	3.7
57	7643128SP	3600	7.6	43	128	90	25C	50C	3.7
58	8243128SP	4000	8.2	43	128	103	25C	50C	3.7
59	8043150SP	4500	8	43	150	115	25C	50C	3.7
60	9545135SP	5000	9.5	45	135	125	25C	50C	3.7
61	743255SP	1000	7.4	32	55	28	30C	60C	3.7
62	553480SP	1200	5.5	34	80	31	30C	60C	3.7
63	753562SP	1300	7.5	35	62	33	30C	60C	3.7

NO.	Type	Capacity (mAh)	Thickness (±0.2)(mm)	Width (±0.5)(mm)	Height (±1.0)(mm)	Weight (g)	Continuous Discharge Current	Burst Discharge Current	voltage (V)
64	683480SP	1500	6.8	34	80	40	30C	60C	3.7
65	783480SP	1700	7.8	34	80	45	30C	60C	3.7
66	803480SP	1800	8	34	80	48	30C	60C	3.7
67	683496SP	1800	6.8	34	96	48	30C	60C	3.7
68	703592SP	1900	7	35	92	50	30C	60C	3.7
69	783296SP	2000	7.8	32	96	51	30C	60C	3.7
70	723496SP	2000	7.2	34	96	51	30C	60C	3.7
71	753496SP	2100	7.5	34	96	53	30C	60C	3.7
72	783496SP	2200	7.8	34	96	55	30C	60C	3.7
73	7245135SP	3600	7.2	45	135	91	30C	60C	3.7
74	8245135SP	4000	8.2	45	135	100	30C	60C	3.7
75	8545180SP	6000	8.5	45	180	160	30C	60C	3.7
76	453562XP	740	4.5	35	62	19	35C	70C	3.7
77	603562XP	1000	6	35	62	28	35C	70C	3.7
78	4843128XP	2000	4.8	43	128	51	35C	70C	3.7
79	7834106XP	2200	7.8	34	106	56	35C	70C	3.7
80	5043128XP	2300	5	43	128	60	35C	70C	3.7
81	5542125XP	2500	5.5	42	125	64	35C	70C	3.7
82	5543128XP	2500	5.5	43	128	65	35C	70C	3.7
83	6545135XP	3200	6.5	45	135	81	35C	70C	3.7
84	7543150XP	4000	7.5	43	150	102	35C	70C	3.7

## Cylindrical Li-polymer Battery ▶

NO.	Type	Capacity (mAh)	Diameter Max. (mm)	Height Max. (mm)	Impedance (mΩ)	Weight (g)	voltage (V)
1	40480R3	35	4.2	48.00	300 ↓	1.10	3.7
2	60520R3	75	6.2	52.00	150 ↓	2.30	3.7
3	60600R10	130	6.2	60.00	110 ↓	3.10	3.7
4	60650R8	140	6.2	65.00	90 ↓	3.30	3.7
5	65400R12	90	6.7	40.00	150 ↓	2.80	3.7
6	65500R10	120	6.70	50.00	110 ↓	3.10	3.7
7	65600R8	150	6.70	60.00	90 ↓	3.40	3.7
8	70350R12	85	7.20	35.00	150 ↓	2.39	3.7
9	70480R8	140	7.20	48.00	90 ↓	3.30	3.7
10	75300R12	85	7.70	31.00	130 ↓	2.22	3.7
11	75400R8	140	7.70	40.00	90 ↓	3.14	3.7
12	75500R8	180	7.70	50.00	90 ↓	4.00	3.7
13	75550R8	210	7.70	55.00	90 ↓	4.50	3.7
14	75600R8	220	7.70	60.00	80 ↓	5.10	3.7
15	80350R8	150	8.20	35.00	90 ↓	3.20	3.7
16	80400R8	180	8.20	40.00	90 ↓	3.82	3.7
17	80500R8	240	8.20	50.00	80 ↓	4.90	3.7
18	80550R8	250	8.20	55.00	80 ↓	5.30	3.7
19	80600R8	280	8.20	60.00	80 ↓	5.90	3.7
20	80700R3	340	8.20	70.00	80 ↓	8.00	3.7
21	100450R3	320	10.20	45.50	80 ↓	8.00	3.7
22	100500R3	350	10.20	50.50	80 ↓	9.00	3.7
23	100650R3	550	10.80	65.00	80 ↓	11.50	3.7
24	100860R3	720	10.50	86.00	80 ↓	13.70	3.7
25	100900R3	680	10.00	90.00	80 ↓	13.70	3.7
26	120250R3	210	12.50	25.50	80 ↓	5.90	3.7
27	120350R3	400	12.50	35.00	80 ↓	10.00	3.7
28	120500R3	600	12.50	50.00	80 ↓	12.00	3.7
29	120650R3	750	12.30	67.00	80 ↓	15.00	3.7
30	130450R5	550	13.40	45.00	80 ↓	11.50	3.7
31	130460R3	650	13.40	46.00	80 ↓	13.28	3.7
32	130600R3	900	13.40	55.00	80 ↓	14.30	3.7
33	130700R3	1000	13.40	70.00	80 ↓	21.50	3.7
34	140500R3	850	14.30	50.50	80 ↓	18.30	3.7
35	140650R3	1120	14.30	65.50	80 ↓	23.50	3.7
36	160600R3	1200	16.30	60.50	81 ↓	26.00	3.7

※ Remark: R3=3C discharge, R5=5C discharge, R8= 8C discharge, R12= 12C discharge.

## Non-Rechargeable Lithium Battery



### Li-MnO<sub>2</sub> Battery

- Characteristics**
- 1.High-voltage(3V)
  - 2.Suitable for large current
  - 3.Low self-discharge rate
  - 4.Wide working temperature range (-20~60℃)
  - 5.Stable discharge voltage
  - 6.Excellent leakage-proof
  - 7.Excellent safety characteristics
- Application**
- 1.Camera,Medical equipment,Lamp,Radio,Electronic lock
  - 2.Electronic meter (Water meter,Gas meter,Ammeter)



### Li-SOCL<sub>2</sub> Battery

- Characteristics**
- 1.High-voltage(3.6V)
  - 2.The specific energy(500wh/kg) and energy density(1000wh/dm3) are very high
  - 3.The discharge voltage is very stable
  - 4.Wide working temperature range (-40~85℃)
  - 5.Self-discharge is very low,the shelf-life can be more than 10 years
- Application**
- 1.Water meter,Gas meter,Ammeter
  - 2.Memory power for man instrument and meter equipment

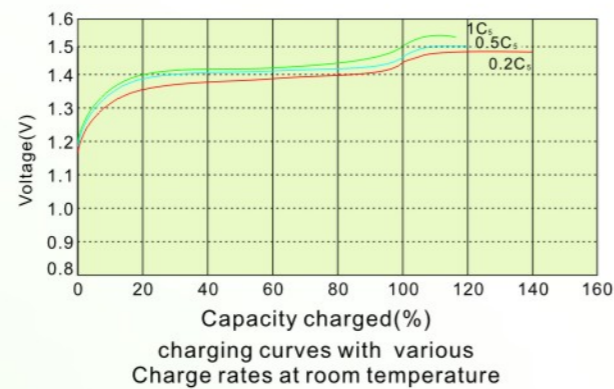
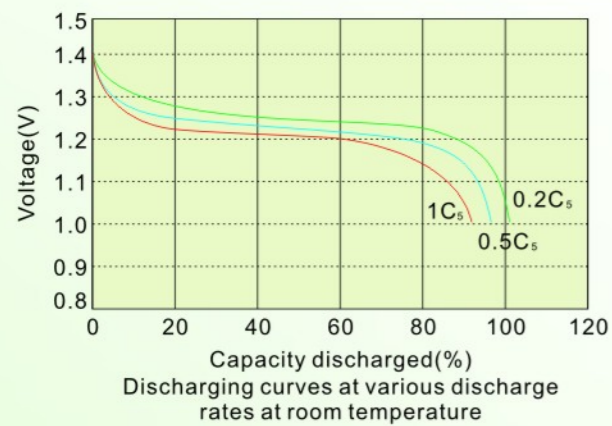
## Cylindrical Li-MnO<sub>2</sub> Battery ▶

Model	Nominal Voltage (V)	Nominal Capacity (mAh)	Discharge Capacity (mA)	End Voltage (V)	Dimension(mm)		Reference Weight (g)	Operating Temperature (℃)
					Max. Diameter	Max. Height		
CR14250	3	650	10	2	14.5	25.0	10	-20~+60
CR14505	3	1500	10	2	14.5	50.5	17	-20~+60
CR17335	3	1500	10	2	17.0	33.5	16	-20~+60
CR17450	3	2000	10	2	17.0	45.0	25	-20~+60
CR17505	3	2300	10	2	17.0	50.5	28	-20~+60
CR123A	3	1500	10	2	17.0	34.5	16	-20~+60
CR1/3N	3	160	2	2	11.6	10.8	3.3	-20~+60
CR2	3	850	10	2	15.6	27.0	11	-20~+60
CR-P2	6	1400	10	4			34	-20~+60
2CR5	6							

## Major Features For Ni-MH Battery

- Being Environment-friendly  
Cd 0% Hg 0% Pb 0%
- Excellent Performance of High Rate Charge and Discharge  
For different applications, the cell can be quick charged in 1-3 hours, it can also withstand a high rate discharge of 10C.
- Reliable Safety Vent  
It is 100% tested that the safety vent opens automatically when the internal pressure of the cell is more than 25atm.
- Wide Temperature Range  
Performance remains efficient over a wide temperature range from -20°C to +60°C
- Handling performance  
Maintenance-free and can be applied optionally.
- No Memory Affects  
Ni-MH battery can be recharged after partial discharge

## Performance Characteristics



## CONSUMER USE

### Ni-MH



Size	Model Number	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension (mm)		Standard Charge		Rapid Charge		Reference Weight (g)
				Diameter (mm)	Height (mm)	Current (mA)	Time (hr)	Current (mA)	Time (hr)	
AAA	EA-AAA550	1.2V	550	10.5	44.5	55	16	550	1.2	11
	EA-AAA600	1.2V	600	10.5	44.5	60	16	600	1.2	12
	EA-AAA700	1.2V	700	10.5	44.5	70	16	350	2.4	13
	EA-AAA800	1.2V	800	10.5	44.5	80	16	400	2.4	14.5
	EA-AAA900	1.2V	900	10.5	44.5	90	16	450	2.2	15
	EA-AAA1000	1.2V	1000	10.5	44.5	100	16	500	2.2	16
	EA-AAA1100	1.2V	1100	10.5	44.5	110	16	550	2.2	16.5
AA	EA-AA600	1.2V	600	14.5	50.5	60	16	600	1.2	16
	EA-AA700	1.2V	700	14.5	50.5	70	16	700	1.2	18
	EA-AA800	1.2V	800	14.5	50.5	80	16	800	1.2	18.5
	EA-AA900	1.2V	900	14.5	50.5	90	16	900	1.2	19
	EA-AA1000	1.2V	1000	14.5	50.5	100	16	1000	1.2	20
	EA-AA1100	1.2V	1100	14.5	50.5	110	16	1100	1.2	21
	EA-AA1200	1.2V	1200	14.5	50.5	120	16	1200	1.2	22
	EA-AA1300	1.2V	1300	14.5	50.5	130	16	1300	1.2	23
	EA-AA1500	1.2V	1500	14.5	50.5	150	16	1500	1.2	25
	EA-AA1600	1.2V	1600	14.5	50.5	160	16	1600	1.2	26
	EA-AA1800	1.2V	1800	14.5	50.5	180	16	900	2.4	27
	EA-AA1900	1.2V	1900	14.5	50.5	190	16	950	2.4	28
	EA-AA2000	1.2V	2000	14.5	50.5	200	16	1000	2.2	28
	EA-AA2100	1.2V	2100	14.5	50.5	210	16	1050	2.2	29
EA-AA2200	1.2V	2200	14.5	50.5	220	16	1100	2.2	29	
EA-AA2300	1.2V	2300	14.5	50.5	230	16	1150	2.2	30	
EA-AA2400	1.2V	2400	14.5	50.5	240	16	1200	2.2	31	
EA-AA2500	1.2V	2500	14.5	50.5	250	16	1250	2.2	32.5	
EA-AA2700	1.2V	2700	14.5	50.5	270	16	1350	2.2	35	
C	EA-C3500	1.2V	3500	26.0	50.5	350	16	1750	2.2	76
	EA-C4000	1.2V	4000	26.0	50.5	400	16	2000	2.2	82
	EA-C4500	1.2V	4500	26.0	50.5	450	16	2250	2.2	84
D	EA-D7000	1.2V	7000	33.0	60.5	700	16	2800	3	154
	EA-D7500	1.2V	7500	33.0	60.5	750	16	3000	3	160
	EA-D8000	1.2V	8000	33.0	60.5	800	16	3200	3	162
	EA-D8500	1.2V	8500	33.0	60.5	900	16	3400	3	166
	EA-D9000	1.2V	9000	33.0	60.5	900	16	3600	3	162
	EA-D10000	1.2V	10000	33.0	60.5	1000	16	4000	3	166
6F22 (8.4V)	EA-9V180	9V	180	26.5X16.8X48.5		18	15	72	3	48
	EA-9V200	9V	200	26.5X16.8X48.5		20	15	80	3	54
	EA-9V250	9V	250	26.5X16.8X48.5		25	15	100	3	56

### Ni-CD

AAA	EA-AAA300	1.2V	300	10.5	44.5	30	16	300	1.2	10
	EA-AAA350	1.2V	350	10.5	44.5	35	16	350	1.2	12
AA	EA-AA500	1.2V	500	14.5	50.4	100	7.5	500	1.2	18
	EA-AA600	1.2V	600	14.5	49.1	120	7.5	600	1.2	19
	EA-AA700	1.2V	700	14.5	49.1	140	7.5	700	1.2	21
	EA-AA800	1.2V	800	14.5	49.1	160	7.5	800	1.2	21
	EA-AA900	1.2V	900	14.5	49.1	180	7.5	900	1.2	22
	EA-AA1000	1.2V	1000	14.5	50.4	200	7.5	1000	1.2	23
	EA-AA1100	1.2V	1100	14.5	50.4	220	7.5	1100	1.2	25
C	EA-C2500H	1.2V	2500	26	50.4	250	15	750	300	70
D	EA-D4000	1.2V	4000	33	60.3	400	15	1200	300	130

## INDUSTRY USE

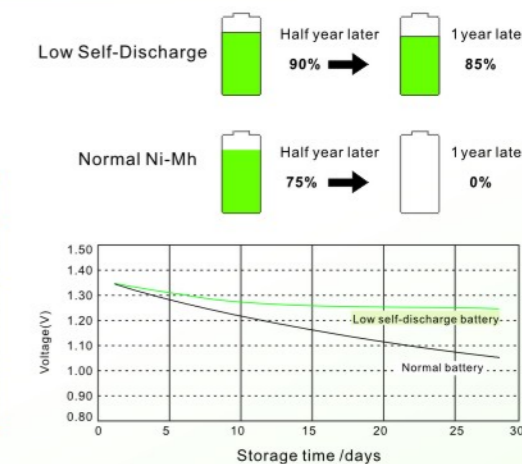


Type	Model Number	Size	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension(mm)		Standard Charge		Rapid Charge		Reference Weight (g)
					Diameter (mm) <sup>φ</sup>	Height (mm) <sup>h</sup>	Current (mA)	Time (hr)	Current (mA)	Time (hr)	
AAAA	EA-2/3AAA200	AAAA	1.2	200	8.1	29	20	16	200	1.2	5
	EA-4/5AAA300	AAAA	1.2	300	8.1	40	30	16	300	1.2	7
	EA-AAAA550	AAAA	1.2	550	8.1	52	55	16	550	1.2	10
AAA	EA-1/4AAA80	1/4AAA	1.2	80	10.5	11	8	16	60	1.2	4
	EA1/3AAA120	1/3AAA	1.2	120	10.5	15	12	16	120	1.2	5
	EA-1/3AAA150	1/3AAA	1.2	150	10.5	15	15	16	150	1.2	6
	EA-2/3AAA300	2/3AAA	1.2	300	10.5	29	30	16	300	1.2	7
	EA-4/5AAA500	4/5AAA	1.2	500	10.5	38	50	16	300	1.2	7
	EA-AAA600	AAA	1.2	600	10.5	44	60	16	600	1.2	12
	EA-AAA700	AAA	1.2	700	10.5	44	70	16	700	1.2	13
	EA-AAA800	AAA	1.2	800	10.5	44	80	16	800	1.2	14
	EA-AAA900	AAA	1.2	900	10.5	44	90	16	900	1.2	14.5
	EA-AAA1000	AAA	1.2	1000	10.5	44	100	16	1000	1.2	15
	EA-5/4AAA700	5/4AAA	1.2	700	10.5	50	70	16	700	1.2	15
	EA-5/4AAA800	5/4AAA	1.2	800	10.5	50	80	16	800	1.2	17
EA-5/3AAA900	5/3AAA	1.2	900	10.5	67	90	16	900	1.2	18	
EA-5/3AAA1000	5/3AAA	1.2	1000	10.5	67	100	16	500	2.2	20	
AA	EA-2/3AA600	2/3AA	1.2	600	14.5	28	60	16	600	1.2	13
	EA-2/3AA800	2/3AA	1.2	800	14.5	28	80	16	700	1.2	14
	EA-4/5AA1200	4/5AA	1.2	1200	14.5	43	120	16	1200	1.2	21
	EA-AA600	AA	1.2	600	14.5	49	60	16	600	1.2	16
	EA-AA800	AA	1.2	800	14.5	49	80	16	800	1.2	18.5
	EA-AA1000	AA	1.2	1000	14.5	49	100	16	1000	1.2	20
	EA-AA1200	AA	1.2	1200	14.5	49	120	16	1200	1.2	22
	EA-AA1300	AA	1.2	1300	14.5	49	130	16	1300	1.2	23
	EA-AA1500	AA	1.2	1500	14.5	49	150	16	1500	1.2	25
	EA-AA1600	AA	1.2	1600	14.5	49	160	16	1600	1.2	26
	EA-AA1700	AA	1.2	1700	14.5	49	170	16	850	2.2	27
	EA-AA1800	AA	1.2	1800	14.5	49	180	16	900	2.2	27
	EA-AA1900	AA	1.2	1900	14.5	50	190	16	950	2.2	28
	EA-AA2000	AA	1.2	2000	14.5	50	200	16	1000	2.2	28
	EA-AA2100	AA	1.2	2100	14.5	50	210	16	1050	2.2	29
EA-AA2200	AA	1.2	2200	14.5	50	220	16	1100	2.2	29	
EA-7/5AA1800	7/5AA	1.2	1800	14.5	65	180	16	1800	1.2	21	
A	EA-28A1200	2/3A	1.2	1200	17	29	120	16	1200	1.2	20
	EA-43A1800	4/5A	1.2	1800	17	43	180	16	1800	1.2	28
	EA-43A2100	4/5A	1.2	2100	17	43	210	16	2100	1.2	30
	EA-50A2200	A	1.2	2200	17	50	220	16	2200	1.2	33
	EA-50A2500	A	1.2	2500	17	50	250	16	2500	1.2	36
	EA-67A3600	4/3A	1.2	3600	17	67	360	16	1080	2.4	54
	EA-67A3800	4/3A	1.2	3800	17	67	380	16	1900	2.4	57
18650	EA-18650/3200	18650	1.2	3200	18.5	65	320	16	1600	2.4	55
	EA-18650/3800	18650	1.2	3800	18.5	65	380	16	1900	2.4	60
	EA-18670/4200	18670	1.2	4200	18.5	67	420	16	2100	2.4	63
	EA-18670/4500	18670	1.2	4500	18.5	67	450	16	2250	6.5	66
	SC	EA-SC1300	SC	1.2	1300	23	43	130	16	130	1.2
EA-SC1800		SC	1.2	1800	23	43	180	16	1800	1.2	41
EA-SC2500		SC	1.2	2500	23	43	180	16	2500	1.2	50
EA-SC2800		SC	1.2	280	23	43	28	16	840	4	56
EA-SC3000		SC	1.2	3000	23	43	300	16	900	4	60
EA-SC3600		SC	1.2	3600	23	43	360	16	1800	2.4	63
EA-50SC3500		SC	1.2	3300	23	50	350	16	1750	2.4	61
C	EA-C3500	C	1.2	3500	26	49	350	16	1750	2.4	73
	EA-C4500	C	1.2	4500	26	49	450	16	2250	2.4	84
D	EA-D8000	D	1.2	8000	33	60	800	16	2400	3	162
	EA-D9000	D	1.2	9000	33	60	900	16	900	3	170
	EA-D10000	D	1.2	10000	33	60	1000	16	2000	7.5	175
F	EA-F12000	F	1.2	12000	33	90	1200	16	2400	6.5	230
	EA-F13000	F	1.2	13000	33	90	1350	16	2700	6.5	246
6F22	EA-9V 180	9V	1.2	180	26.5*15.6*48.5		18	16	72	3	38
	EA-9V 200	9V	1.2	200	26.5*15.6*48.5		20	16	80	3	40

## Ready To Use (Low Self-Discharge)

Compared with other Ni-MH battery, Low self-discharge has many advantages such as lower self-discharge, longer storage time, longer service life etc. especially the superior performance of capacity recovered when the battery voltage is below 1.0V, and 85% charge retention even after one year storage. It is the best choice to replace primary batteries.

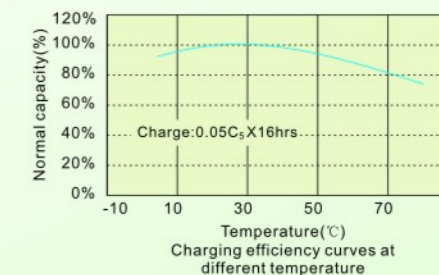
Type	Model Number	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension(mm)		Standard Charge		Rapid Charge		Reference Weight (g)
				Diameter (mm) <sup>φ</sup>	Height (mm) <sup>h</sup>	Current (mA)	Time (hr)	Current (mA)	Time (hr)	
AAA	EA-AAA750L	1.2	750	44.5	10.5	45	16	375	2.4	13
	EA-AAA800L	1.2	800	44.5	10.5	80	16	400	2.4	13
	EA-AAA850L	1.2	850	44.5	10.5	85	16	170	7.0	13
AA	EA-AA1900L	1.2	1900	50.5	14.5	190	16	950	2.4	27
	EA-AA2000L	1.2	2000	50.5	14.5	200	16	1000	2.4	28
	EA-AA2100L	1.2	2100	50.5	14.5	210	16	1050	2.4	29
	EA-AA2200L	1.2	2200	50.5	14.5	220	16	1100	2.4	30
C	EA-C4000L	1.2	4000	50.0	25.8	400	16	2000	2.4	80
D	EA-D8000L	1.2	8000	61.5	33.0	800	16	1600	7.5	146
9V	EA-9V200L	9V	200	48.5*26.5*17.5		20	16	100	2.4	34



## Ni-MH High Temperature

This series adapts special technics and materials to ensure the excellent charge and discharge performance in the high-temperature environment. In the ambient temperature at 80 °C, which charging efficiency is up to 70%, and widely used in all types of electrical devices in high-temperature environment.

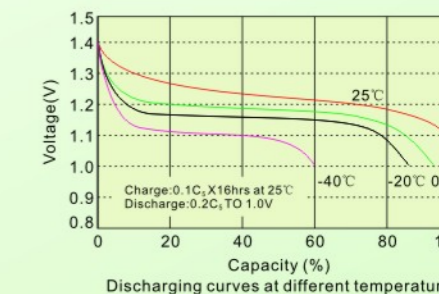
Type	Model Number	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension(mm)		Standard Charge		Rapid Charge		Reference Weight (g)
				Diameter (mm) <sup>φ</sup>	Height (mm) <sup>h</sup>	Current (mA)	Time (hr)	Current (mA)	Time (hr)	
AAA	EA-AAA600	1.2	600	44.5	10.5	60	16	300	2.4	12
	EA-AAA750	1.2	750	50.5	10.5	75	16	375	2.4	13
AA	EA-AA1500	1.2	1500	49	14.5	150	16	750	2.4	25
	EA-AA1800	1.2	1800	50.5	14.5	180	16	900	2.4	27
SC	EA-SC2900	1.2	2900	43	23	290	16	1450	2.4	52
D	EA-D8000	1.2	8000	61.5	33	800	16	1600	7.5	155



## Ni-MH Low Temperature

This series adapts special technics and materials, which has an excellent charge and discharge performance in the low-temperature environment, and kept with over 50% discharge efficiency at -40°C, Widely used in solar lights, anti-cold devices, military facilities, aircraft in cold areas, and so on.

Type	Model Number	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension(mm)		Standard Charge		Rapid Charge		Reference Weight (g)
				Diameter (mm) <sup>φ</sup>	Height (mm) <sup>h</sup>	Current (mA)	Time (hr)	Current (mA)	Time (hr)	
AAA	EA-AAA600LT	1.2	600	44.5	10.5	60	16	300	2.4	12
	EA-AA800LT	1.2	800	49	14.5	80	16	400	2.4	18
AA	EA-AA1250LT	1.2	1250	49	14.5	125	16	625	2.4	24
	EA-AA1700T	1.2	1700	50.5	14.5	170	16	850	2.4	27
A	EA-43A1600LT	1.2	1600	43	17	160	16	800	2.4	31
	EA-A2100LT	1.2	2100	50	17	210	16	1050	2.4	38
18670	EA-18670-3600	1.2	3600	67	18.5	360	16	1800	2.4	58
	EA-18700-4000	1.2	4000	72	18.5	400	16	2000	2.4	64
SC	EA-SC1500LT	1.2	1500	43	23	150	16	750	2.4	39
	EA-SC2200LT	1.2	2200	43	23	220	16	1100	2.4	46
C	EA-SC3500LT	1.2	3500	61.5	23	400	16	2000	2.4	76
	EA-C4000LT	1.2	4000	50.5	25.8	400	16	2000	2.4	82
D	EA-D7000LT	1.2	7000	61.5	33	700	16	1400	7.5	147



## Ni-CD Battery Specification

General types Ni-CD batteries: Use for digital cameras, lights, touches, Cordless phones, communications, toys, portable videos, etc.

Size	Model Number	Size	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension(mm)		Standard Charge		Rapid Charge		Reference Weight (g)	
					Diameter (mm) <sup>+0.07</sup>	Height (mm) <sup>+0.1</sup>	Current (mA)	Time (hr)	Current (mA)	Time (hr)		
AAA	EA-1/3AAA60	1/3AAA	1.2	60	10.5	15	12	7.5	60	1.2	5	
	EA-1/3AAA80	1/3AAA	1.2	80	10.5	15	16	7.5	80	1.2	5.5	
	EA-2/3AAA200	2/3AAA	1.2	200	10.5	28.7	40	7.5	200	1.2	7	
	EA-AAA300	AAA	1.2	300	10.5	43.3	60	7.5	300	1.2	10	
	EA-AAA350H	AAA	1.2	350	10.5	44.5	70	7.5	350	1.2	10	
AA	EA-1/3AA150	1/3AA	1.2	150	14.5	16.5	30	7.5	150	1.2	10	
	EA-2/3AA300	2/3AA	1.2	300	14.5	28.5	60	7.5	300	1.2	11	
	EA-2/3AA400	2/3AA	1.2	400	14.5	28.5	80	7.5	400	1.2	12	
	EA-4/5AA700	4/5AA	1.2	700	14.5	43.3	140	7.5	700	1.2	20	
	EA-AA500	AA	1.2	500	14.5	50.4	100	7.5	500	1.2	18	
	EA-AA600	AA	1.2	600	14.5	49.1	120	7.5	600	1.2	19	
	EA-AA700	AA	1.2	700	14.5	49.1	140	7.5	700	1.2	21	
	EA-AA800	AA	1.2	800	14.5	49.1	160	7.5	800	1.2	24	
	EA-AA900	AA	1.2	900	14.5	49.1	180	7.5	900	1.2	22	
	EA-AA1000	AA	1.2	1000	14.5	50.4	200	7.5	1000	1.2	23	
	EA-AA1100	AA	1.2	1100	14.5	50.4	220	7.5	1100	1.2	24	
	EA-4/3AA1100	4/3AA	1.2	1100	14.5	67	220	7.5	1100	1.2	25	
	A	EA-1/3A240	1/3A	1.2	240	17	17	48	7.5	240	1.2	10
		EA-2/3A600	2/3A	1.2	600	17	28.3	120	7.5	600	1.2	25
EA-4/5A1200		4/5A	1.2	1200	17	42.8	240	7.5	1200	1.2	30	
EA-A1400		A	1.2	1400	17	49.8	280	7.5	1400	1.2	36	
EA-4/3A1600		4/3A	1.2	1600	17	66.5	320	7.5	1600	1.2	41	
SC	EA-2/3SC600	2/3SC	1.2	600	23	26.3	120	7.5	600	1.2	25	
	EA-4/5SC1000	4/5SC	1.2	1000	23	33.8	200	7.5	1000	1.2	37	
	EA-SC1300	SC	1.2	1300	23	42.8	260	7.5	1300	1.2	40	
	EA-SC1500	SC	1.2	1500	23	42.8	300	7.5	1500	1.2	43	
	EA-SC1800	SC	1.2	1800	23	42.8	360	7.5	1800	1.2	48	
	EA-SC2000	SC	1.2	2000	23	42.8	200	7.5	2000	1.2	48	
	EA-4/3SC2200	4/3SC	1.2	2200	23	49.5	440	7.5	2200	1.2	58	
C	EA-2/3SC1000	2/3SC	1.2	1000	23	30.8	200	15	1000	1.2	35	
	EA-C2000	C	1.2	2000	26	49.5	200	7.5	600	5	65	
D	EA-C2500H	C	1.2	2500	26	50.4	250	15	750	5	70	
	EA-D4000	D	1.2	4000	33	60.3	400	15	1200	5	130	
6F22	EA-D4500	D	1.2	4500	33	60.3	450	15	1350	5	140	
	EA-D5000	D	1.2	5000	33	60.3	500	15	1500	5	145	
6F22	EA-4/3D7000	4/3D	1.2	7000	33	90	700	15	2100	5	195	
	EA-9V 180	9V	1.2	180	26.5*15.6*48.5		18	16	72	3	38	
6F22	EA-9V 200	9V	1.2	200	26.5*15.6*48.5		20	16	80	3	40	


## Ni-CD High Power Battery

Use for Cordless vacuum cleaners, power tools, automotive batteries

Size	Model Number	Size	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension(mm)		Standard Charge		Rapid Charge		Reference Weight (g)
					Diameter (mm) <sup>+0.07</sup>	Height (mm) <sup>+0.1</sup>	Current (mA)	Time (hr)	Current (mA)	Time (hr)	
AAA	EA-AAA300P	AAA	1.2	300	43	10.2	60	7.5	300	1.2	1.2
	EA-AA300P	2/3AA	1.2	300	28.5	14.1	60	7.5	300	1.2	1.2
	EA-AA700P	AA	1.2	700	49.5	14.1	140	7.5	700	1.2	22
AA	EA-AA900P	AA	1.2	900	49.5	14.1	180	7.5	900	1.2	24
	EA-A650P	2/3A	1.2	650	28.5	17	130	7.5	650	1.2	1.2
	EA-SC1300P	SC	1.2	1300	42	22.1	260	7.5	1300	1.2	46
SC	EA-SC1500P	SC	1.2	1500	42	22.1	300	7.5	1500	1.2	46
	EA-SC1800P	SC	1.2	1800	42	22.1	360	7.5	1800	1.2	48
	EA-C2200P	C	1.2	2200	49	25.3	440	7.5	2200	1.2	70
C	EA-C2500P	C	1.2	2500	49	25.3	500	7.5	2500	1.2	72
	EA-D4500P	D	1.2	4500	59	32.3	900	7.5	4500	1.2	126
D	EA-D5000P	D	1.2	5000	59	32.3	1000	7.5	5000	1.2	130
	EA-F7500P	F	1.2	7500	89	32.3	1400	7.5	7500	1.2	190

## Ni-CD High Temperature Battery

Use for Emergency lighting, guide lights, emergency device.



Type	Model Number	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension(mm)		Standard Charge		Rapid Charge		Reference Weight (g)
				Diameter (mm) <sup>+0.07</sup>	Height (mm) <sup>+0.1</sup>	Current (mA)	Time (hr)	Current (mA)	Time (hr)	
AAA	EA-AAA350T	1.2	350	10.2	42.6	35	16	-	-	9.6
AA	EA-AA600T	1.2	600	14.1	48.5	60	16	-	-	18
SC	EA-SC1300T	1.2	1300	22.5	42.5	130	16	-	-	36
	EA-SC1600T	1.2	1600	22.5	42.5	160	16	-	-	42
	EA-SC1800T	1.2	1800	22.5	42.5	180	16	-	-	45
D	EA-SC2000T	1.2	2000	22.5	42.5	200	16	-	-	47
	EA-C2500T	1.2	2500	25.5	49	250	16	-	-	63
D	EA-D4000T	1.2	4000	32.5	60	400	16	-	-	107
	EA-D4500T	1.2	4500	32.5	60	450	16	-	-	117
	EA-D5000T	1.2	5000	32.5	60	500	16	-	-	119

## Ni-MH Prismatic Batteries




Model	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension (WxTxH(Max. mm))	Standard Charge		Rapid Charge		Reference Weight (g)
				Current (mA)	Time (hr)	Current (mA)	Time (hr)	
F8	1.2	1250	17x48x8.3	125	16	650	2.3	22
3/5F6	1.2	400	17x29x6.1	40	16	400	1.2	9.5
7/5F6	1.2	1350	17x67x6.1	135	16	650	2.3	25
F6	1.2	750	17x48x6.1	75	16	750	1.2	18
2/3F6	1.2	550	17x35x6.1	55	16	550	1.2	13
3/5F6	1.2	450	17x30x6.1	45	16	450	1.2	11
7/5F6	1.2	1200	17x67x6.1	120	16	600	2.3	24
7/5F6	1.2	1450	17x67x6.1	145	16	700	2.3	25

## Ni-MH Button Cells



Model	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension(mm)		Standard Charge		Reference Weight (g)
			Diameter (mm) <sup>+0.07</sup>	Height (mm) <sup>+0.1</sup>	Current (mA)	Time (hr)	
15H	1.2	20	11.4	3.1	2.0	15	1.3
30H	1.2	30	11.5	5.4	3.0	15	2.5
60H	1.2	80	15.2	6.0	8.0	15	3.3
120H	1.2	150	23.3L X 15.0W X 5.0H		15.0	15	5.2
170H	1.2	210	25.0	6.2	21.0	15	10
280H-I	1.2	350	25.0	8.8	35.0	15	14.5
280H-II	1.2	320	25.0	8.6	32.0	15	14
450K	1.2	450	34.0L X 24.0W X 5.5H		45.0	15	15.5

## Ni-CD Button Cells



Model	Nominal Voltage (V)	Nominal Capacity (mAh)	Dimension(mm)		Standard Charge		Reference Weight (g)
			Diameter (mm) <sup>+0.07</sup>	Height (mm) <sup>+0.1</sup>	Current (mA)	Time (hr)	
15K	1.2	15	11.4	3.1	1.5	15	1.2
30K	1.2	30	11.5	5.4	3.0	15	2.2
60K	1.2	60	15.2	6.0	6.0	15	3.0
120K	1.2	120	23.3L X 15.0W X 5.0H		12.0	15	5.0
170K	1.2	170	25.0	6.2	17.0	15	9.6
280K-I	1.2	280	25.0	8.8	28.0	15	12.5
280K-II	1.2	280	25.0	8.6	28.0	15	12.0